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<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) 371 CONCERNING A FILING UNDER 35 U.S.C.</b>		ATTORNEY'S DOCKET NO.: VIP-0022-USPCT
		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/559899</b>
INTERNATIONAL APPLICATION NO. PCT/EP2004/051084	INTERNATIONAL FILING DATE 10.06.2004	PRIORITY DATES CLAIMED 10.06.2003, 16.06.2003 and 10.06.2004
TITLE OF INVENTION COMPUTATIONAL METHOD FOR PREDICTING THE CONTRIBUTION OF MUTATIONS TO THE DRUG RESISTANCE PHENOTYPE EXHIBITED BY HIV BASED ON A LINEAR REGRESSION ANALYSIS OF THE LOG FOLD RESISTANCE		
APPLICANT(S) FOR DO/EO/US : Van Marck et al.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</li> <li>9. <input checked="" type="checkbox"/> One (1) Power of Attorney or Authorization of Agent of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input checked="" type="checkbox"/> One (1) PCT Declaration.</li> <li>11. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>		
Items 11 to 20 below concern document(s) or information included:		
<ol style="list-style-type: none"> <li>12. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>13. <input checked="" type="checkbox"/> Two (2) Assignment documents for recording. Two (2) separate cover sheets in compliance with 37 CFR 3.28 and 3.31 are included.</li> <li>14. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>15. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>16. <input type="checkbox"/> A substitute specification.</li> <li>17. <input checked="" type="checkbox"/> One (1) Certificate Under 37 CFR 3.73(b).</li> <li>18. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.</li> <li>19. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> </ol>		

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20. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

21. ☒ Other items or information: Express Mail Certification, International Search Report and Claim for Priority.

This collection of information is required by 37 CFR 1.414 AND 1.491-1.492. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION NO. <b>10/559899</b>		INTERNATIONAL APPLICATION NO. PCT/EP2004/051084		ATTORNEY'S DOCKET NUMBER VIP-0022-USPCT	
21. <input checked="" type="checkbox"/> The following fees are submitted:				Applicant use	Office use only
x a) Basic national fee ..... \$300.00				\$ 300.00	
X b) Examination fee ..... \$200.00				\$ 200.00	
X c) Search fee ..... \$500.00				\$ 500.00	
TOTAL OF ABOVE CALCULATIONS = \$ 1000.00				\$ 1,000.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100 =	/50 =		x \$250.00	\$ 0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$ 0.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	15	- 20	x \$50.00	\$ 0.00	
Independent claims	1	- 3	x 200.00	\$ 0.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$300.00	\$ 0.00	
TOTAL OF ABOVE CALCULATIONS =				\$ 0.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$ 0.00	
SUBTOTAL =				\$ 1,000.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$ 0.00	
TOTAL NATIONAL FEE =				\$	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$ 80.00	
TOTAL FEES ENCLOSED =				\$ 80.00	
Amount to be refunded:					\$ 0.00
Amount to be charged:					\$ 1,080.00
a. <input type="checkbox"/> A check in the amount of \$_____ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>10-0750/VIP-0022-USPCT/LAD</u> in the amount of \$1,080.00 to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>10-0750/VIP-0022-USPCT/LAD</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit Card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.					
<b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO: Philip S. Johnson, Esq. Johnson & Johnson One Johnson & Johnson Plaza New Brunswick, NJ 08933-7003 USA				/Laura A. Donnelly/ _____ Signature Name: Laura A. Donnelly Reg. No. 38,435 Attorney for Applicants Dated: December 6, 2005	

VIP-0022-USPCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Van Marck et al.

For: COMPUTATIONAL METHOD FOR PREDICTING THE  
CONTRIBUTION OF MUTATIONS TO THE DRUG RESISTANCE  
PHENOTYPE EXHIBITED BY HIV BASED ON A LINEAR  
REGRESSION ANALYSIS OF THE LOG FOLD RESISTANCE

Express Mail Certificate

"Express Mail" mailing number: EL 960332061 US

Date of Deposit: December 6, 2005

I hereby certify that this entry into the National Phase pursuant to 35 USC 371 contains complete application:

Express Mail Certificate	(1 page)
Return Receipt Postcard	(1 page)
PCT FORM 1390 Transmittal	(3 pages & 2 copies of same)
Copy of International Application as filed	(54 pages)
Drawings	(21 sheets)
Executed Power of Attorney or Authorization of Agent (1)	(1 sheet)
PCT Declaration (1)	(3 sheets)
Executed Assignments (2) with Cover Sheets	(6 sheets)
Certificate Under 37 CFR 3.73(b)	(1 sheet)
Information Disclosure Statement and Form 1449 and MPEP 609D	(7 pages)
Claim for Priority	(7 pages)
Preliminary Amendment	(8 pages)
Copy of WO 2004/111907 A2 and A3	(78 pages including drawings and ISR)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee; service under 37 CFR 1.10 on the date indicated above is addressed to the Mail Stop: Patent Application, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Laurie A. Phillips

(Typed or printed name of person mailing paper or fee)

/Laurie A. Phillips/

(Signature of person mailing paper or fee)

10/559899

IAP9 Rec'd PCT/PTO 6 DEC 2005

Serial No. \_\_\_\_\_ Docket No. VIP-022-00PCT By: LAD

Application of: Van Marcke et al Mailed: December 6, 2005

Entitled: Computational method for predicting the contribution of mutations to the drug resistance...

THE FOLLOWING HAS BEEN RECEIVED IN THE U.S. PATENT OFFICE ON THE DATE STAMPED HEREON:

☐ Provisional ☐ Nonprovisional ☐ CPA ☐ RCE ☐ CIP ☐ Divisional ☐ Design ☐ PCT  
☐ Continuation ☒ Other § naturalization of PCT Application  
☒ Power of Attorney (1) - executed  
☒ Assignment (2) with recordation sheet  
☐ Fee Transmittal PCT Declaration (3 sheets)  
☒ Charge to Deposit Account 10-0750  
☒ Priority Document WO 2004/111907 A2 and A3  
☐ Data Sheet with search report  
☒ IDS-Form 1449  
☐ Extension of Time claim for priority (7 pages)  
☒ PTO 1390 (PCT) certificate under 37 CFR 3.73(b)

Express Mail Certificate  
☒ # EL 96033 2061 US  
☒ Specification 54 pgs  
☒ Claims 16  
☒ Drawings 21 sheets  
☒ Preliminary Amendment  
☐ Sequence Listings/Diskette  
☐ Biological Deposit Declaration  
☒ Other MPEP 609 d

10/559899

IAP9 Rec'd PCT/PTO 6 DEC 2005

VIP-022-USA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Virco BVBA

Serial No.:

Art Unit:

Filed :

Examiner:

For : QUANTITATIVE PREDICTION METHOD

Commissioner for Patents  
Washington, D.C. 20231

CERTIFICATE UNDER 37 CFR 3.73(b)

Virco BVBA, a Corporation, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignments were recorded in the Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), or the patent application identified above, to the current assignee as shown below:

1. From:  
To:

The document was recorded in the Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached.

2. From:  
To:

The document was recorded in the Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached.

3. From:  
To:

The document was recorded in the Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

25 October 2005

Date

F. Daelemans

Signature

Frank Daelemans

Typed or Printed Name

Proxy Holder

Title